



# Precision Rated Optics

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Great People Making  
Great Products

# 2013 Catalog

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## LEGAL NOTICE

### Precision Rated Optics

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All products are sold FOB shipping point. Items will be shipped UPS ground, freight collect or third-party bill unless otherwise requested by purchaser. Please advise method of shipment and preferred carrier when order is placed. We discourage mandatory carrier requirements which have an adverse effect on service and delivery. Check your order immediately upon arrival. All damages must be noted on delivery receipt. Any claims for damage or loss of items while in transit must be filed with the carrier.

For purchasers with established credit, terms are net 30 days from date of shipment. Payments must be in U.S. dollars and cash discounts are not allowed. Our remit to address is Precision Rated Optics, PO BOX F Yardley, PA 19067

Items being returned must first be approved and must be shipped freight prepaid. Returned goods are subject to a 25% restocking fee.

Any liability for consequential or incidental damages is expressly disclaimed. Liability is limited to, and shall not exceed, the purchase price paid.





**Designed,  
Developed,  
Manufactured,  
Sold, Serviced  
and Supported in  
the USA!**

Throughout the Precision Rated Optics line of products you will find many that proudly display the "Made in America" logo. There are many solid reasons why PRO has sought to bring American-made products to the fiber optics industry, but in the end it comes down to "job creation," which equals "quality products" and "local support."

When you build a quality product, people notice. Anybody who works in the field knows that you have to be able to rely on your tools, because without rugged, reliable, easy-to-use tools, you don't stand a chance of meeting tight job deadlines or attaining reliable results.

Our American-made tools are designed and built to be the best in the industry and to consistently deliver results at a competitive price.

At PRO we aim high and we strive to keep your dollars where they belong - here in America. Although not every single product in our line can carry the "Made in America" logo, you can be sure we're working hard to make that a reality.

That will continue to be our promise to you as we endeavor to build our solid reputation - one customer at a time.

Let's face it - when it has to be right, you have to work with a PRO.

Thank you for choosing our products and for supporting America's economy!  
Together we'll get the job done.

*Sincerely,*

*Thomas DePaolantonio  
President, Precision Rated Optics*



**Precision Rated Optics**  
**Work with a PRO!**



## SPLICERS

**PRO® 730**  
*Fusion Splicer*

Whether your application is Premise, OSP or FTTx, splicing with the PRO-730 will get the job done right! The core-alignment PRO-730 is designed to work with all the popular fiber types and in all weather conditions. With storage space for up to 8000 groups of splice results and a reversible monitor, you can splice all day long with efficiency and ease.

CE and RoHS certified.

**Key Features:**

- Reversible monitor with control panel on each side
- 8 Sec. splice time, 40 second heater time
- Data storage - 8000 groups of splice results

**SPECIFICATIONS**

Applicable Fibers	SM, MM, DS, NZ-DS, EDF
Fiber Diameter	Cladding Diameter: 100 to 150um Coating Diameter: 100-1000
Average Splice Loss	0.02dB (SM), 0.01dB (MM), 0.04dB (DS), 0.04 (NZDS)
Interface	RS232
Splice Programs	15 groups of preset programs, 1 group of editable programs
Data Storage	8000 Splice Records

**PRO® 790**  
*Fusion Splicer*

The perfect complement to our existing Fusion Splicer product line, the PRO-790 is lighter (3.75 lbs) and simplified to keep the cost low without sacrificing quality.

**Features:**

- 8 Second splice time, 35 second heater time
- Data storage - 10,000 groups of splice results
- Splice-on connector capabilities
- User programmable
- USB interface for updates and data transfers

**SPECIFICATIONS**

Applicable Fibers	SM, MM, DS, NZ-DS(G655), G655,G657 and others
Fiber Diameter	Cladding Diameter: 80-150 um; Coating Diameter: 100~1000 um
Average Splice Loss	0.03db(MM),0.05db(SM),0.08db (DS/NZDS/G.655/G.657)
Splicing Program	Manual or Automatic Setting
Alignment	Core Alignment



# PRO<sup>®</sup> 810

## Fusion Splicer



Whether your application is Premise, OSP or FTTx, splicing, the PRO-810 will get the job done right. The top-of-the-line PRO-810 features Dual Independent Heaters, dual axis view and reversible, High-Definition LCD Monitor with three magnification modes and x360 magnification. The USB interface ensures both swift software updates and data transfer rates. With the PRO-810 Fusion Splicer in your kit you'll be sure to maintain efficiency in *any* work environment.

### Features

- Profile Alignment System (PAS)
- Dual independent heaters, 30 sec. tube-heat time
- 3 magnification modes, 360x magnification maximum
- 8 sec. splice time
- Data storage - 8000 groups of splice results
- USB interface for updates and data transfers

### SPECIFICATIONS

Applicable Fibers	SM, MM, DS, NZ-DS(G655), EDF and Others
Fiber Diameter (um)	Cladding Diameter: 100-150 um Coating Diameter: 100~1000 um
Average Splice Loss	0.02dB(SM), 0.01dB(MM), 0.04dB(NZDS)

# PRO<sup>®</sup> FS-C81

## High Precision Fiber Cleaver



### Features:

- Applicable to coating fiber diameter of 250um &900um
- Applicable up to 12-fiber cleaving
- Fibers blade life (3 height x 12 positions)
- Compact body and light weight

### Specifications

Applicable fibers	Silica Optical Fiber
Bare fiber diameter	125um
Coating diameters	250um, 900um
Cleaving angle	0.5 Degrees with Single Fiber
Cleaving length	250um: 9~16mm; 900um: 10~16mm
Blade positions	3 Height and 12 Rotating Positions
Blade life	36,000 Fibers (1,000 Fibers x 3 Height x 12 Positions)
Dimensions	60W x 76D x 57H mm
Weight	420g



# Splicer Technician Kit

## Sale \$9,995 (\$2,464 savings)



### PRO-730 Fusion Splicer

Applicable Fibers	SM, MM, DS, NZ-DS, EDF
Cladding Diameter (um)	100 to 150
Average Splice Loss	0.02dB(SM), 0.01dB(MM), 0.04dB(DS), 0.04dB(NZDS)
Splice Time	8 Seconds
Data Storage	8000 Splices



### LS-201Q Laser Source

Wavelength (nm)	850/1300/1310/1550
Connector	FC/PC, SC/PC, ST/PC Interchangeable Connectors (APC is available at the time of ordering)
Output Stability	Short Term (15 min.): $< \pm 0.05\text{dB}$ @ 1310,1550nm and $\pm 0.1\text{dB}$ @850 & 1300 Long Term (8 Hours): $< \pm 0.1\text{dB}$ @ 1310,1550nm and $\pm 0.2\text{dB}$ @850 & 1300



### PM-102A Power Meter

Wavelength (nm)	850/1300/1310/1490/1550/1625
Connector	FC/PC, SC/PC, ST/PC, 2.5 Universal
Accuracy	$\pm 0.35\text{ dB} + 10\text{nW}$



### VFL-1A Visual Fault Locator

Wavelength (nm)	650 $\pm$ 10nm
Connector	FC/ST/SC
Modulated Frequency	2 Hz



### HM-C400S (400x) Fiber Scope

#### Kit Includes:

- Fusion splicer (PRO-730)\*
- 100 splice sleeves
- PK-21Q12A\*\*
- Quad Laser Source (LS-201Q)
- Power Meter (PM-102A)
- Visual Fault Locator (VFL-1A)
- Fiber Scope 400x (HM-C400S)
- Rugged nylon bag

\*PRO-730 Fusion Splicer (1 year warranty)

\*\*PRO Test Kit (3 year warranty)



# PRO<sup>®</sup> FBE-300 Series

## FiberBase<sup>®</sup> Enabled OTDR



Manufactured, Sold, Serviced  
and Supported in the USA!



Bluetooth<sup>®</sup>

### Features:

- Most affordable OTDR on the market
- Short Dead Zone
- 32 dB dynamic range (SM)
- Ultra-fast trace acquisition
- One-button testing
- Event table with pass/fail feature
- Trace comparison with trace overlay
- Super-simple Graphical User Interface (GUI)
- Easy training with Onboard Help System (OHS)
- SM, MM and QUAD units available

### Standard Accessories

Universal power adapter w/US, UK, CE, and AU plugs, interchangeable FC/ST and SC adapters, Windows/Telcordia SR4731 software, rubber boot, USB cable, manual on CD



Interaction with other applications on your device such as GPS and "Speech to Text" make this an even more powerful instrument

The USA made FiberBase<sup>®</sup> enabled OTDR is controlled by any 2.2 or newer Android<sup>®</sup> device with Bluetooth capability. The display size is determined by the Droid<sup>®</sup> device.

The PRO-FBE-OTDR is the most affordable OTDR on the market today. Using a smart phone or tablet to control the OTDR affords the user many options, such as user-friendly management and file transfer. This unit is available in SM, MM and Quad wavelength options. Testing is made simple and fast with the press of the Auto-Test button. Tap an event and the active cursor moves directly to that event on the trace. With the offered dynamic ranges and a 2-meter dead zone make it ideal for up to 240km as well as being perfect for short LAN links within the facility.

Weighing in at just over one pound, this OTDR is ideal for all conditions. With the remote capability of the Android operating system, you always have the screen in the best operation position possible. Files are saved in .sor Telcordia format and can be transferred to a PC or laptop if desired. Trace storage is only limited by the capacity of the Droid<sup>®</sup> device.

### SPECIFICATIONS

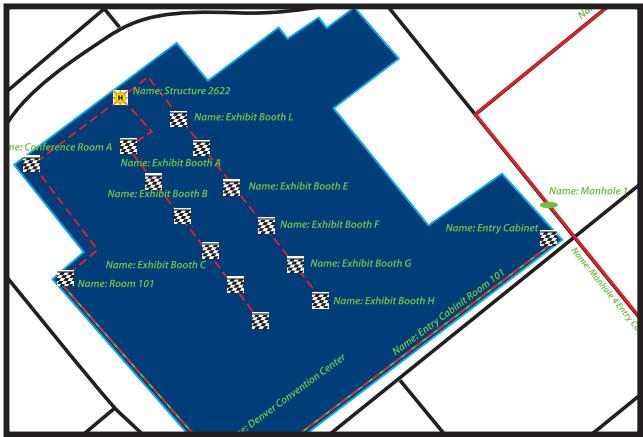
Wavelength	850, 1300, 1310, 1550, ±20nm
Dynamic Range	27/26dB MM, 32/30dB SM
Pulse Width	20 - 10,000 ns
Units of Measurement	km, kf
Event Dead Zone	2m
Attenuation Dead Zone	5m
Resolution	.25 - 64m
Distance Variable	±(0.75m + 0.005% x distance + sampling resolution)
Full Scale Distance Range	1-64km MM, 1-240km SM
Typical Real-Time Refresh Rate	>1Hz
Group Index of Refraction (GIR)	1.024 - 2.048
Linearity	± .05 dB/dB
Memory Capacity	1000 traces
Communications	Bluetooth, USB PC
Power Supply / Charger	Universal
Battery	4hr
Storage Temperature	-20 to 60 C
Operating Temperature Range	-10 to 50 C
Dimensions (without rubber boot)	7.62" L x 3.88" W x 1.56" H (194mm L x 99mm W x 40mm H)
Weight	1.4lbs.
Connector Styles	FC, ST, SC Interchangeable



# FiberBase®

Precision Rated Optics Authorized Re-seller

FiberBase® is a sophisticated database and mapping package designed for today's broadband environment. Designed by industry professionals, FiberBase® lets you map all your network assets in a GIS enabled database, completely document your network from entire routes to individual fibers, and plan for network expansion. Check out our FiberBase® specific page for more info!



## PRO-3 Series OTDR:

Wavelengths	850, 1300, 1310, 1550, ±20nm
Dynamic Range	27/26dB MM, 32/30dB SM
Event Dead Zone	<2m
Memory Capacity	1000 Traces
Communications Ports	USB

## Visual Fault Locator Specifications

Emitter Type	Laser
Wavelength	650nm ±5nm
Laser Safety Class	Class IIFDA21 CFR1040.10 &1040.11 IEC 825-1: 1993

## Power Meter Specifications

Detector Type	InGaAs
Dynamic Range	+5 to -77dB
Wavelengths	850, 1300, 1310, 1490, 1550 nm
Power Input Range	+5 to -77dBm

## PRO® 3 Series

### Handheld OTDR - Stand-Alone (No FiberBase)



The PRO-3 Series OTDR is the most affordable handheld OTDR on the market today, with all of the features typical of more expensive units. Features such as Trace Overlay, Visual Fault Locator, Loss Test Set, Color Display, One Button Autotest and Event Analysis are included. This unit is available in Single Mode (1310,1550nm), Multi-Mode (850, 1300nm) and Quad (850, 1300, 1310, 1550nm) versions. Telcordia Compatible software included. Trace comparison with Trace Overlay.

## Light Source Specifications

Fiber Type	Single Mode/Multi Mode
Wavelengths	850, 1300, 1310, 1550 nm ±20nm
Output Power	0 dBm (-3dBm @ 1625nm)

## ORDERING INFORMATION

PRO-3SM-35-FP	1310/1550nm SM OTDR with LTS and VFL
PRO-3MM-83-FP	850/1300nm MM OTDR with LTS and VFL
PRO-3Q-FP	850/1300/1310/1550nm Quad OTDR with LTS or VFL



# PRO<sup>®</sup> 5 Series

## Handheld OTDR

Five Tools  
in One!



Manufactured, Sold, Serviced  
and Supported in the USA!

Boasting a 36dB dynamic range and a 1 meter dead zone, the PRO 5 Series satisfies even the most demanding testing and troubleshooting requirements. An array of operational modes such as One Button Fault Finder, Construction, Real-Time and Full-Manual make the 5 Series perfect for everything from LAN networks to Metro networks.

The 5 Series also includes a Visual Fault Locator, AutoTest/AutoWave Power Meter, Stable Light Source and a Video Inspection Scope.

You'll also receive the "CertSoft" certification software suite which allows you to print professional reports that can include Loss Tests Set measurements and Connector-End Face images.

### Features:

- 36 dB dynamic range
- Short, 1 meter Dead Zone
- Fiber Inspection video probe port
- Onboard memory to store 500 traces

### Visual Fault Locator Specifications

Emitter Type	Laser Photo Diode 1100 - 1700nm InGaAs -70- +9dBm with interchangeable FC Adapter
Wavelength	650nm ±5nm

### PRO-5 Series OTDR:

Wavelength	850, 1300, 1310, 1490, 1550nm ±20nm
Dynamic Range	27/26dB MM, 36/35dB SM
Event Dead zone	1m
Memory Capacity	~500 Traces
Communications ports	USB and USB Flash Drive Ports

### Power Meter Specifications

Detector Type	InGaAs
Dynamic Range	+5 to -77dB (CATV - +25 to -57dB)
Wavelengths	850, 1300, 1310, 1490, 1550, 1625nm

### Light Source Specifications

Fiber Type	Single Mode, Multi-Mode
Wavelengths	850, 1300, 1310, 1550nm ±20nm
Output Power	0 dBm (-3dBm @ 1550nm)

### ORDERING INFORMATION

PRO-5SM-35-FP	1310/1550nm SM OTDR with LTS and VFL
PRO-5SM-35-VFP	1310/1550nm SM OTDR with LTS, VFL, Probe and Soft Case
PRO-5MM-83-FP	850/1300nm MM OTDR with LTS and VFL
PRO-5MM-83-VFP	850/1300nm MM OTDR with LTS, VFL, Probe and Soft Case
PRO-5Q-FP	850/1300/1310/1550nm QUAD OTDR with LTS and VFL
PRO-5Q-VFP	850/1300/1310/1550nm QUAD OTDR with LTS, VFL, Probe and Soft Case



# PRO® "Super Tech" Optical Unit

*The OTDR that has an 8 Channel CWDM Channel Analyzer, Optical Loss Tester, Visual Fault Locator, Inspection Scope and much more!*

Six Tools  
in One!



When you need one compact, multi-tasking tool that can do it all from the palm of your hand, The PRO-8CW/35SM is the answer. With all the features and functionality found in much higher priced test equipment you'll find a dual wavelength OTDR, Eight Channel CWDM Channel Analyzer, Stable Light Source, Broadband Power Meter, Visual Fault Locator and Video Inspections Scope all in one unit. The OTDR has a 36/34dB (1310/1550) dynamic range and a short, 1 Meter Dead Zone.

Ample internal memory allows you to store up to 500 OTDR traces, 1000 CWDM scans, 10000 LTS measurements and 50 Video Scope images.



*Manufactured, Sold, Serviced  
and Supported in the USA!*

## 6 Tools!!

- Video Inspection System
- Power Meter with Stable Light Source
- Visual Fault Locator
- USB/PC and USB Flash ports
- Cert-Soft Software Suite

## CWDM Channel Analyzer

Wavelength Range	8 Channel 1471-1611nm
Channel Spacing	20nm
Channel Power Range	+5dBm to -50dBm
Measurement Time	< 1/2 Second

## Light Source Specifications

Fiber Type	Single-Mode, Multi-Mode
Wavelengths	850, 1300, 1310, 1550nm ±20nm
Output Power	0 dBm (-3dBm @ 1550nm)

## Visible Light Source

Emitter Type	Laser Photo Diode 1100 - 1700nm InGaAs -70 - +9dBm with Interchangeable FC Adapter
Wavelength	650nm ±5nm

## OTDR Features:

- Onboard memory to store 500 traces

## OTDR

Wavelength	1310, 1550,
Dynamic Range	36/34dB SM,
Pulse Width	5 - 20,000 ns
Event Dead zone	1m

## Power Meter Specifications

Dynamic Range	+5 to -77dB (CATV - +25 to -57dB)
Calibrated Wavelengths	850,1300,1310,1490,1550nm



# PRO® DWDM-LR / DWDM-HR

*C / L Band Channel Analyzer  
with 50 or 100GHz spacing*



*Manufactured, Sold, Serviced  
and Supported in the USA!*



The Mini OTDR is available in up to 88 channels for C or L bands with 50 or 100 GHz channel spacing and displays a full scan twice a second.

The OSA offers high end features such as Power Tilt for channel equalization and Gain Tilt to adjust EDFA gain flatness.

## Features

- Up To 88 Channels
- 50 or 100 GHz
- Fast real-time with <1/2 second update
- Stores 1000 test results
- USB/PC and USB flash ports

## Standard Accessories

Universal power supply with mains for US, UK, CE and AU. Interchangeable FC and SC adapters, Window's compatible software, USB cable, manual, rubber boot

## SPECIFICATIONS

Item / Model No.	DWDM-LR	DWDM-HR
Wavelength Range	C-Band 1530 -1561nm (196.0 THz - 192.0THz)	L-Band 1574-1608nm (190.5 THz - 186.3 THz)
Channel Spacing	50GHz, 100GHz	
Channel Power Range	+10dBm to -50dBm	
Measurement Time	< 1/2 Second	
Optical Interface	Universal UPC (FC/SC)	
Graphical Display	Bar Graph and Table View	



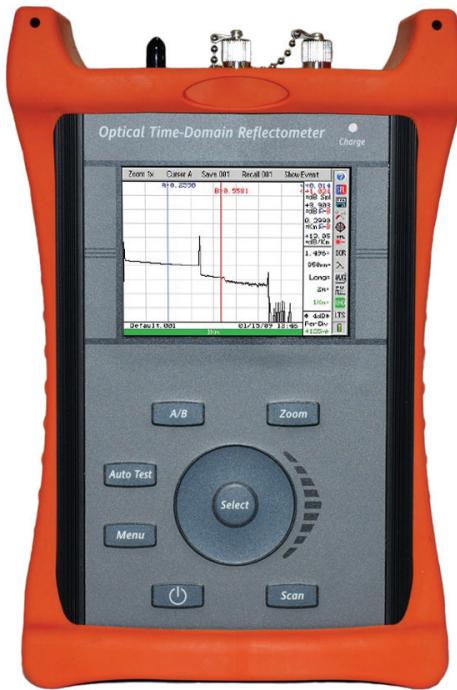
**PRO® CWDM-LR / CWDM-HR**

*Smallest CWDM OTDR's  
from 1471 through 1611nm!*



Manufactured, Sold, Serviced  
and Supported in the USA!

**Choose from Low Range  
or High Range**



**Standard Accessories**

Universal power adapter w/US, UK, Continental Europe, and Australian plugs, interchangeable FC/ST and SC Adapters, Windows/Telcordia SR4731 Software, rubber boot

**Features**

- 30 dB dynamic range
- Flexible wavelength configuration
- Video inspection capability
- Trace overlay capability
- Onboard memory for 1000 Traces
- Visual Fault Locator
- USB Data Port and Mini USB/PC Port

It is available in a variety of wavelengths with up to four wavelengths per unit. The Standard units are 1471/1491/1511/1531nm and 1551/1571/1591/1611nm. Other wavelengths combinations are available upon request.

Use the Light Source in CW mode with the onboard broadband Power Meter with selectable wavelengths.

The PRO-CWDM weighs in at less than 2.0 pounds. With a hardened, water-resistant enclosure, this OTDR is great for all conditions.

**SPECIFICATIONS**

Item / Model No.	CWDM-LR	CWDM-HR
<b>Wavelength Range</b>	1471/1491/1511/ 1531nm ±3nm	1551/1571/1591/ 1611nm ±3nm
<b>Dynamic Range</b>	30dB	
<b>Pulse Width</b>	20 - 10,000 ns	
<b>Typical Real-time Refresh Rate</b>	4 Hz	
<b>Memory Capacity</b>	1000	

Power Meter		
Detector Type	InGaAs	
<b>Dynamic Range</b>	+5 to -77dB (CATV - +25 to -57dB)	
<b>Calibrated Wavelengths</b>	1471/1491/1511/1531/1551/ 1571/1591/1611nm	

Light Source		
Fiber Type	Single-Mode, Multi-Mode	
<b>Wavelengths</b>	1471/1491/1511/1531nm ±3nm or 1551/1571/1591/1611nm ±3nm	

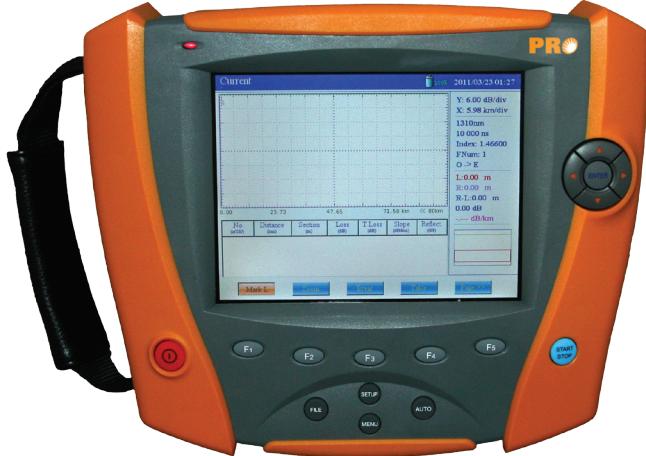
  

Visual Fault Locator		
Emitter Type	Laser	
<b>Wavelength</b>	650nm ±5nm	



# PRO® Single Mode OTDR

## Handheld OTDR



1310/1550 Wavelength  
35/33dB

### Operation Specifications

Display	6.4 inch TFT color LCD
Fiber Adapter	FC/PC SC/PC
Interface	USB(Principal and Subordinate Each),SD,RJ45
Battery	Built-in Rechargeable Li-ion Battery (charging time <4 hours, working time >10 hours)
Power	AC/DC Adapter (Input AC90-240V ±10%, Output DC18V)
Operating Temperature	-10°C~40°C (14°F~104°F)
Storage Temperature	-40°C~70°C (-40°F~158°F)
Relative Humidity	<80%
Dimensions & Weight	9.76" (L) x 7.91" (W) x 2.95" (H) in / <5.51 lbs 248 (L) x201 (W) x75 (H) mm / <2.5Kg

### Included Accessories

OTDR, AC/DC power adapter/charger, FC adapter, SC adapter, Manual, USB cord, Soft Case, "Toolbox" software CD, SD card (1gb)

### Coming soon!

*Higher dynamic range, Droid compatible and much more!*

PRO-3533 is a portable OTDR which is stable and durable and aims at broadcast and telecommunications network measurement. It is also the first OTDR to achieve data share of point-to-point and point-to-multi-point via internet. User can remotely control this instrument via PC when conducting fiber maintenance and testing.

### Features

- Remotely control the OTDR via internet
- High-speed signal processing, less measurement time, and faster results analysis
- USB port, SD card slot, and Ethernet port
- Linux OS for easy upgrades
- Battery is changeable, on site

### Main Specifications

Distance (Km)	5m-200km
Pulse Width(ns)	5ns-20μs
Measurement Time	User-Defined (Smart Link) with Real-Time Measurement Function
Measurement Accuracy(m)	±(0.5m ±0.001% x-testing distance±resolution)
Linearity	±0.05dB/dB
Loss Threshold(dB)	0.01dB
Loss Resolution(dB)	0.001dB
Distance Resolution(m)	0.1m
Sampling Points	64000
Data Storage	1000 items (PRO-3533, PRO-3331) / 2000 items (PRO-3735)



# WE HAVE IT ALL!!!

## Tools/Consumables Splice Packs Custom Kits



# Rack Mounts Patchcords wall Mounts

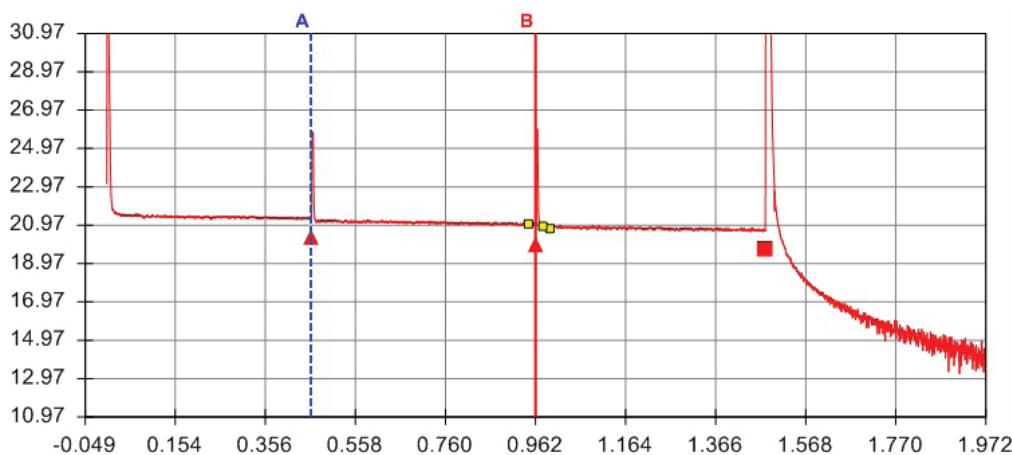
PRECISION RATED OPTICS



## Why Use a Pulse Suppressor?

A pulse suppressor, also known as a dead zone eliminator, is used in conjunction with an OTDR to occupy the dead zone. This helps provide accurate test results in areas where loss must be calculated. A pulse suppressor consists of a length of SM or MM fiber between 300m and 2.2m in length, the fiber is coiled up in a case that has two patch cords extending from the case to connect to the input and output of the fiber.

Adding a length of fiber before the initial connection will not eliminate the dead zone, it will simply move it out. Because a dead zone cannot actually be eliminated, a pulse suppressor is used to identify the quality of the first connector within a fiber span. A launch cord creates linear backscatter before the first connector.



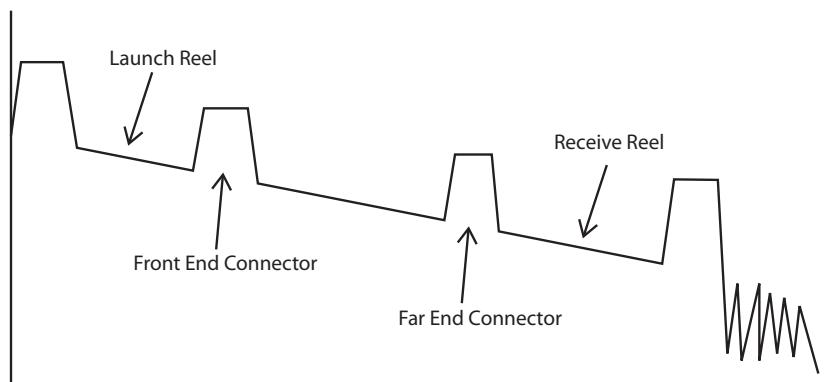
## What About the Far End Connector?

A pulse suppressor can also be used at the end of the fiber to verify the quality of the end connection. The backscattered signal can now be measured on both sides of the connectors, allowing for loss and reflectance measurements of the front and far end.

An OTDR is used to help identify all the characteristics of the fiber including splices, connectors and the quality of the fiber itself, however pulse suppressors were required to really test the quality of the front and far end connectors.

### Advantages:

- Identifies quality of front end and far end connectors
- Improves EMD in Multi-Mode fibers for more precise measurements
- Helps identify good launch levels from an OTDR using a good known lead-in fiber



Note: For most accurate results, the fiber being used should match the fiber being tested in type, core size and connector type. The length of the test boxes should be longer than the pulse width and need to be long enough to show linear backscatter before the connectors.



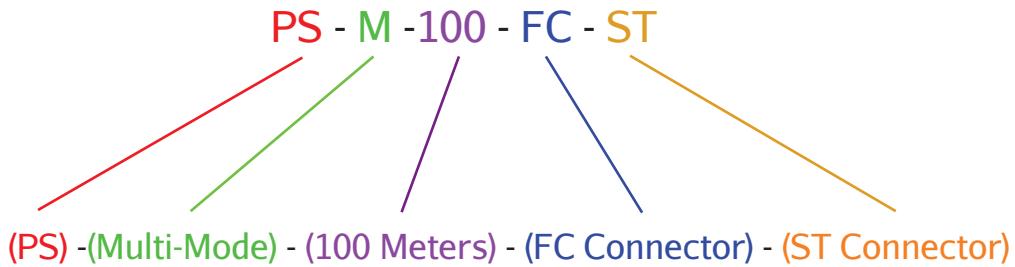
**PRO® Pulse Suppressor**

*Manufactured, Sold, Serviced  
and Supported in the USA!*


PRO Pulse Suppressors are built to order and are available in any configuration you require. When ordering, simply follow the chart below to create your product part number.

**Features:**

- Rugged Pelican Case
- 2 meter lead cables
- Corning fiber optic cable
- Optional Events: "Test Box"
- Fusion Splice
- Macro Bend
- Attenuator

**How to Configure Your Part Number:**


Pulse Suppressor	Fiber Type	Fiber Length (Meters)	First Connector	Second Connector
PS	Single (S)	100 Meter	FC	FC
PS	Multi-Mode (MM)	300 Meter	SC	SC
PS		500 Meter	ST	ST
PS		1K Meter	LC	LC
PS		2K Meter		



# TEST EQUIPMENT

**PRO<sup>®</sup> OBL-201A**  
**PRO<sup>®</sup> OFL-301A**

*Break Locator*  
*Fault Locator*

Low Cost  
High Value  
OBL/OFL!



## World-Leading Fault and Break Locator

### OBL-201A:

Programmed to find one break at a time.

### OFL-301A:

Programmed to find multiple faults at a time.

### Standard Accessories

Rechargeable NiMH battery(4 pcs), AC Adapter, PC software, USB Cable, Travel Bag, Calibration Report, Manual.

The OBL-201A and OFL-301A are high-performance optical fiber troubleshooters for locating fiber breaks and imperfections. Break results and details are displayed on a large LCD screen.

At only 10 oz., this unit is extremely user-friendly. The USB port and included USB cable make it easy to transfer data and perform updates.

### Applications:

- FTTx fiber certification
- CATV technicians (field verification of fiber continuity)
- MDU installation (verification of fiber continuity)
- Any application where affordable "distance to break" testing is required

### SPECIFICATIONS

Item / Model No.	OFL - 301A	OBL - 201A
Fiber Type	9/125 $\mu$ m Single-Mode	
Wavelength	1550 $\pm$ 20 nm	
Emitter Type	LD	
Connector Type	FC/SC/ST	FC/PC (Interchangeable SC,ST)
Pulse Width	10ns/20ns/40ns/80ns/160/ns/320ns/640ns/1280ns/2560ns/5120ns/12400ns/24800ns (auto-switch)	
Max. Output Power	100 mW	
Max. Measurement Range	130 Km	
Distance Accuracy	+/- (0.8 m + 0.001% x Distance)	
Data Storage	999 Measurements	
Event Dead Zone	<3 m	
Power Supply	AC/DC Adapter	
Battery Life	Rechargeable NiMH Battery - 15,000 Tests	
Operating Temperature	14~122 °F (-10 ~ +50 °C)	
Storage Temperature.	-4 ~ 140 °F (20 ~ +60 °C)	
Humidity	0 ~ 85% (non-condensing)	
Communication Port	Mini USB	
Dimension & Weight	7.5" (L) x 4.1" (W) x 2.1" (H) in / 286 g 190 x 105 x 55 mm / 10 oz	





Precision Rated Optics

# Test Kits

- Semi-Rigid carrying case
- Universal adapters
- SM and MM testing



Our optical test kits provide much of the basic gear required for first-line optical fiber cabling installation and verification.

These affordable kits come in varying configurations containing

## Light Sources

102D	201T
103D	202T
202D	201Q
203D	202X

## Power Meters

102A	202B
102B	204A
202A	204B

## All kits include

VFL-A1
400x Microscope



## PRO<sup>®</sup> OPTICAL LOSS KITS



Precision Rated Optics has developed optical test kits designed for specific markets within the communications industry. With new advanced capabilities that make testing simple. PRO Test Kits are the best "go-to" kits for anyone involved in first-line optical fiber cabling installation and verification. Our expertly configured kits contain all the tools necessary to quickly measure loss and power levels, and inspect and clean connector end faces. Features including SM + MM testing capabilities and SC, ST, FC and universal adapters in a semi-ridged carrying case make PRO test kits the best in the market.

#### All kits include:

- Three-unit, semi-rigid carry case
- Power Meter (six wavelengths)
- Light Source (FC Connector)
- VFL-1A
- 400x Microscope

#### Industry Specific Configurations

	Telecommunications	Fiber to the Home	Cable Television	Local Area Network (Office)	Contractor
PK-13D12A	X	X	X	X	
PK-12D12A	X	X	X	X	
PK-12D12B	X	X	X	X	
PK-22D24A	X	X		X	X
PK-23D24A				X	X
PK-22D24B	X	X	X		X
PK-21T24A				X	X
PK-22T24A		X		X	X
PK-21Q24A	X	X	X		X
PK-22X24A	X	X	X		X

## Custom Kits Available

More configurations online



# PRO® PM-102A / PM-102B (CATV) Power Meters



PM-102A Power Meter

The PM-100 series of Power Meters are designed for use with an Optical Laser Source to perform optical loss measurements on fiber optic cable. The PM-100 series is designed for the budget-conscious. A convenient low-battery indicator reminds the user to recharge the battery, while the light weight and smaller size of the PRO 102B delivers outstanding usability typically only found on higher-priced units.

#### Standard Accessories:

Soft carrying case, User manual, Worldwide-compatible AC/DC power adapter, Calibration report, Adapters: FC/PC, SC/PC, ST/PC, Built-in 2.5mm universal adapter, Li-ion battery

#### Optional Accessories:

- LC Adapter, External FC to LC Adapter
- 2.5mm Universal Adapter
- 1.25mm Universal Adapter
- SRC-1 Semi-Rigid 100 Series Case

#### SPECIFICATIONS

Item / Model No.	PM - 102A	PM - 102B
Wavelength (nm)	850/1300/1310/1490/1550/1625	
Connector	FC/PC, SC/PC, ST/PC, Universal	
Detector Type	InGaAs	
Accuracy	+ 0.35 dB + 10nW	
Resolution	0.01dB	
Linearity	+ 5%	
Measuring Range (dBm)	-60 to +3	-40 to +23
Operating Temperature	-10 to +50	
Storage Temperature	-20 to +70	
Power Supply	Li-ion Battery ; 5V AC/DC Adapter	



## PRO® 200 Series Power Meters PM-202A/PM-202B / PM-204A / PM-204B (CATV)



PM-204A Power Meter

The PM 200 series of Power Meters are rugged yet refined. These exceptional units have been designed to function in laboratories, LANs, WANs and CATV environments as well as long distance optical networks. The PM 200 series, together with our Stabilized Laser Sources, can be used to identify optical fiber, measure optical attenuation, verify continuity and evaluate fiber link transmission quality.

### Auto-Wavelength Recognition:

The PM 200 series can transmit with a wavelength identification digital encrypted protocol, enabling the PM 200 Power Meter to automatically use the proper calibration parameters. This feature reduces the need for communication between technicians and decreases the potential for error.

### Referencing Functions:

Signal encrypting can also give the receiving end information on the power to be used as reference, helping ensure efficient referencing, even when the two units are far apart.

### Computer Supported

Onboard Memory for 1000 Traces; Data Transfer to a PC via USB connection. Software Allows Storage of Data in Either Excel or Plain Text Format

### Standard Accessories

FC/PC, SC/PC, ST/PC interchangeable connector; Batteries; Built-in 2.5mm Universal Adapter; Manual, Soft Carrying Case, Software (CD), USB Data Cable; Worldwide Compatible AC/DC Power Adapter; Calibration Report

### Optional Accessories

External LC adapter, 1.25mm universal adapter, SRC-1 semi-rigid 100 series case

### SPECIFICATIONS

Item / Model No.	PM-202A	PM-204A	PM-202B	PM-204B
Calibrated Wavelength	850/1300/1310 /1490/1550/1625 (nm)			
Detector Type		InGaAs		
Accuracy	± 5% ± 1nW		± 5% ± 10nW	
Resolution	0.01dB@ -60 to +10dBm; 0.1dB@ -70 to -60dBm		0.01dB@ -40 to +26dBm; 0.1dB@ -50 to -40dBm	
Linearity		± 5%		
Measuring Range	-70 to +10 (dBm)		-50 to +26 (dBm)	
Tone Detection (Hz)		270,1K,2K		
Operating Temperature		-10 °C to +50 °C		
Storage Temperature		-20 °C to +70 °C		
Power Supply	2pcs * Ni-MH AA (2500mAh); 6V AC/DC Adapter			
Dimension (mm)		160L x 76W x 45H		
Net Weight		270g+		



# PRO<sup>®</sup> OLM-202A / 202B

## Optical Loss Multimeter

Industry's  
Most  
Affordable  
OLM!



The OLM series Multimeter combines a Power Meter with a 3-wavelength Laser Source for optical fiber network installation and maintenance. The unit's large data storage capacity makes it very convenient for transferring field test data to a PC through the built-in USB connection interface.

### Features

- Auto Wavelength Recognition
- Data Storage up to 999 Items

### Standard Accessories

User manual, Rechargeable batteries, Soft carrying case, Interchangeable FC/SC/ST connectors, Worldwide compatible AC /DC power adapter, PC software, USB data cable

### Optional Accessories

Various Connector Adapters

### SPECIFICATIONS

Item / Model No.	OLM-202A	OLM-202B
Power Meter	<b>Calibration Wavelength</b>	850/1300/1310/1490/1550/1625 (nm)
	<b>Connector</b>	Interchangeable FC/SC/ST for PC/APC
	<b>Data Storage(items)</b>	999
	<b>Ref. Value</b>	Yes
	<b>Display Units</b>	dB / dBm / mW /uW
	<b>Display Precision(dB)</b>	0.01
	<b>Accuracy (nW)</b>	± 5% ± 1
	<b>Wavelength Recognition</b>	1310/1490/1550(input power> -40dBm)
	<b>Tone Detection</b>	270 Hz / 1KHz / 2KHz(input power> -40dBm)
Laser Source	<b>Measuring Range(dBm)</b>	-70 to +10      -50 to +26
	<b>Output Wavelength (nm)</b>	1310/1490/1550
	<b>Connector</b>	Interchangeable FC/SC/ST for PC
	<b>Modulation Frequencies (Hz)</b>	270/1K/2K
	<b>Output Power (dBm)</b>	-5dBm ± 0.5
	<b>Stability Long-Term(8h) (dB)</b>	± 0.1@1310/1550nm; ± 0.2@1490nm
	<b>Stability Short-Term (15min) (dB)</b>	± 0.05@1310/1550nm ; ± 0.1@1490nm
General Specification	<b>Wavelength Recognizing Code</b>	Yes
	<b>Auto Power Off</b>	Yes
	<b>Power Supply</b>	2pcs *NiHM 1.2V, 2000mAh; AC/DC Adapter
	<b>PC Interface</b>	USB
	<b>Battery Life</b>	> 100 Hours (laser off)
	<b>Storage Temperature</b>	-4 ° F to 158 ° F(-20 ° C to +70 ° C)
	<b>Operating Temperature</b>	14 ° F to 122 ° F (-10 ° C to +50 ° C)
	<b>Relative Humidity</b>	<90% (Non-Condensing)
	<b>Dimension</b>	6.6" (L) x 3" (W) x 1.70"(H) in (168 (L) x 76 (W) x 43 (H) mm)
	<b>Weight</b>	0.70 lbs (310 g)



# PRO® 100 Series Light Sources

## LS-102D / LS-103D



LS-102D Light Source

The LS-100 series offers excellent stability and portability for accurate fiber optic testing. The single output port provides stable laser power at dual wavelengths. This compact unit operates in either continuous wave (CW) mode or modulated mode. A low-battery indicator reminds the user to recharge the battery and the unit's light weight and smaller size delivers outstanding convenience usually only associated with higher-priced units.

### Features:

- Easy-to-use, straight-forward operation
- Eye-catching handheld package
- LCD backlight for easy operation in darker environments
- 3dB Adjustable by the user
- Rechargeable battery
- Three-year warranty

\* APC available upon request

### Standard Accessories:

- SC/PC connector (built in)
- Soft carrying case
- User manual
- AC/DC power adapter
- Calibration report
- Li-ion battery

### SPECIFICATIONS

Item / Model No.	LS-102D	LS-103D
Output wavelength (nm)	1310 & 1550	850 & 1300
Emitter Type	LD	
Connector	FC/PC	
Output stability	Short Term (15 minutes): <0.1dB Long Term (5 Hours or above): <0.2dB	
Central Wavelength	1310 ± 20nm & 1550 ± 20nm	850 ± 10nm & 1300 ± 20nm
Spectral Width	5 nm	
Output Frequency (Hz)	270, 1K, 2K	
Output Power	-5 dBm	
Operating Temperature	-10 °C to +50 °C	
Storage Temperature	-20 °C to +70 °C	
Power supply	Li-ion Battery ; 5V AC/DC Adapter	
Dimension (mm)	115L x 65W x 30H	
Weight	140 g	



# PRO® 200 Series Light Sources

Dual, Tri &  
Quad Wave  
Available



LS-202X Light Source

#### Optional Accessories:

- FC/APC Connector
- SC/APC Connector

The LS-200 series offers excellent stability and portability for accurate fiber optic testing. Dual output ports provides stable laser power at dual wavelengths. This compact unit will operate in either continuous wave (CW) mode or modulated mode. The output power is instantly adjustable from the keypad. A convenient low-battery indicator reminds the user to recharge the battery, while the light weight and smaller size of the 200 Series delivers rock-solid reliability under all working conditions.

#### Auto-Wavelength Recognition

LS 200 units can transmit with a wavelength-identification digital encrypted protocol, enabling the PM 204 Power Meters to automatically use the proper calibration parameters. This feature reduces the need for communication between the two technicians and decreases the potential for error.

#### Features:

- Easy-to-use, straightforward operation
- Eye-catching handheld package
- LCD backlight for easy operation in darker environments
- Rechargeable batteries included
- Three-year warranty and recommended calibration interval

#### Standard Accessories:

- FC/PC, SC/PC, ST/PC interchangeable connector
- Soft carrying case
- User manual
- Worldwide compatible AC/DC power adaptor
- Rechargeable battery
- Calibration report

#### SPECIFICATIONS

	LS-201Q	LS-202X	LS-201T	LS-202T	LS-202D	LS-203D
<b>Output Wavelength (nm)</b>	850/1300/1310/1550	1310/1490/1550/1625	1310/1490/1550	1310/1550/1625	1310 & 1550	850 & 1300
<b>Emitter Type</b>				LD		
<b>Connector</b>	FC/PC, SC/PC, ST/PC Interchangeable Connectors (APC is available at the time of ordering)					
<b>Output Stability</b>	Short Term (15 min.): < ±0.05dB @ 1310,1550nm and ±0.1dB@850 & 1300 Long Term (8 Hours): < ±0.1dB @ 1310,1550nm and ±0.2dB@850 & 1300	Short Term (15 min.): < ±0.05dB @ 1310,1550nm; ±0.1dB @ 1625nm Long Term (8 Hours): < ±0.1dB @ 1310,1550nm; ±0.2dB @ 1625nm	Short Term (15 min.): < ±0.05dB @ 1310,1550nm Long Term (8 Hours): < ±0.1dB @ 1310,1550nm	Short Term (15 min.): < ±0.05dB @ 1310,1550nm Long Term (8 Hours): < ±0.1dB @ 1310,1550nm	Short Term (15 min.): < ±0.1dB @ 850,1300nm Long Term (8 Hours): < ±0.2dB @ 850,1300nm	
<b>Central Wavelength</b>	± 20nm		1310±20 & 1490±20 & 1550±20		1310±20 & 1550±20	850±10 & 1300±20
<b>Spectral Width</b>	5 nm	5 nm	5 nm	5 nm	5 nm	5 nm
<b>Output Frequency (Hz)</b>	270, 1000, 2000					
<b>Output Power</b>	-5 dBm					
<b>Operating Temperature</b>	-10°C to 50°C					
<b>Storage Temperature</b>	-20°C to 70°C					
<b>Power Supply</b>	2pcs * Ni-MH AA(2500mAh)					
<b>Dimension (mm)</b>	160L * 76W * 45H					
<b>Weight</b>	270g					



# TEST EQUIPMENT

## PRO® PON-301 PON Meter

The PON-301 is the ideal tool for FTTH/FTTP service activation and field application troubleshooting.

### SPECIFICATIONS

	FC/PC	SC/PC	ST/PC
<b>Measurement Range</b>	1310nm(Burst Mode)	1490nm	1550nm
	-25dBm~+5.5dBm	-30dBm~+15dBm	-40dBm~+20dBm
<b>Spectral Passband</b>	1310 nm	1490nm	1550nm
	1260nm~1360nm	1480nm~1550nm	1539nm~1565nm
<b>Insertion Loss</b>		1.5dB	
<b>Accuracy</b>		± 0.5dB	
<b>Linearity</b>		± 0.2dB	
<b>Display</b>		2.8 inch TFT LCD	
<b>Refresh Rate of Display</b>		2.5Hz	
<b>Threshold</b>	10 Sets (configured via PC-based software)		
<b>Number of Ports</b>	2(1 for ONU,1 for OLT&Video)		
<b>Operating Temperature</b>	14 to 122 °F (-10 to +50 °C)		
<b>Relative Humidity</b>	0%~95%, Non-Condensing		
<b>Power Supply</b>	1.2V*4pcs Ni-MH AA;12V AC/DC Adapter		
<b>Battery Life</b>	>20 hours		
<b>Dimension</b>	7.5 x 4.1 x 2.2 in (190 x 105 x 55 mm)		
<b>Net Weight</b>	1.5 lbs (700g)		

### Features:

- Pass-through connection for ONT signal measurement
- Simultaneous measurement of all PON signals
- Filtered detectors for individual measurements of each wavelength
- Upstream burst detection at 1310 nm

\*APC Available upon request



### ORDERING INFORMATION

PON-301 PRO PON - 301

### OPTIONAL ACCESSORIES:

PMA-LC	LC Adapter	PMA-U25	2.5mm Universal Adapter
PMA-E2000	E2000 Adapter	PMA-U125	1.25mm Universal Adapter

## PRO® OVA-201S / 202S Optical Variable Attenuator



The Optical Variable Attenuator is a compact, portable instrument widely used in fiber link certification and routine maintenance as well as lab environments.

### SPECIFICATIONS

	OVA-201S	OVA-202S
<b>Attenuation Range</b>	0~80dB	0~60dB
<b>Fiber Type</b>	SMF 9/125 $\mu$ m	
<b>Calibrated Wavelengths</b>	1310nm/1550nm	
<b>Linearity</b>	$\leq 0.3$ dB	
<b>Accuracy</b>	0.2dB @3~30dB 1.0dB @ 30~60dB 2.0dB@60~80 dB	0.2dB @3~20dB 0.5dB @ 20~50dB 1.0dB@50~60 dB
<b>Insert Ion Loss</b>	<3dB	
<b>Return Loss</b>	>50dB(PC)	
<b>Max Input Power</b>	24dBm	
<b>Power Supply</b>	1.2 V Ni-MH Battery * 2pcs	
<b>Connector</b>	Interchangeable FC/PC, SC/PC, ST/PC connectors. (FC/APC, SC/APC are available at time of ordering)	
<b>Operating Temperature</b>	-10 °C to 50 °C	
<b>Storage Temperature</b>	-20 °C to 60 °C	
<b>Relative Humidity</b>	0%~95% (non-condensing)	
<b>Dimension</b>	160L*76W*45H(mm)	
<b>Weight</b>	360g (Battery Included)	

### ORDERING INFORMATION

OVA-201S	Optical Attenuator
OVA-202S	Optical Attenuator



## PRO® VFL-1A

### Visual Fault Locator



Three  
Output  
Levels!

The VFL-1A is a well-made, compact, powerful Visible Light Source with three (3) variable output levels including 0 / 3 / 8 dBm. The VFL-1A can be used to locate sharp bends and breaks in jacketed or bare fiber up to 10km. It can also be used to identify connectors in patch panels or to identify fibers during splicing operations.

#### Features:

- 3 adjustable output powers 0/3/8 dBm
- Back-light for LCD display
- Auto Shut-off

#### Standard Accessories:

(SC/PC, ST/PC, FC/PC), Carrying Bag, User Manual, AC/DC power adapter, Test report

#### SPECIFICATIONS

Item / Model No.	VFL-1A	VFL-10	VFL-5
Wavelength (nm)	650 ± 10	Approx. 650	650 ± 10
Emitter type	LD		FP-LD
Connector type	FC/ST/SC	- Universal Standard 2.5mm - External 1.25mm Adaptor	FC Universal 2.5 mm
Modulated Frequency (Hz)	2	2 to 3	2
Output Power	0, 3, 8 dBm (adjustable)	1mw, 3mw, 5mw, (10mw optional)	1 mW / 0 dBm
Power Supply	AC/DC Adapter & Li-ion Battery	2AA Alkaline Batteries	
Battery Life	20 hours	>15 hours	40 hours
Operating Temperature	14 to 122 °F (-10°C to +50°C)	-10°C to +45°C	14 °F to 140 °F (-10 °C to +60 °C)
Storage Temperature	-14 to 158 °F (-20°C to +70°C)	-40°C to +70°C	14 °F to 158 °F (-10 °C to +70 °C)
Humidity	0 ~ 95%		
Dimension (LxWxH)	4.5" x 2.5" x 1.2" in (115 x 65 x 30 mm)	7.1" x 0.6" in (180 x 15 mm)	3.9" x 1.2" x 0.7" in (100 x 30 x 18 mm)
Weight	0.3 lbs (140g)	0.26 lbs (120 g)	0.13 lbs (60 g)

## PRO® VFL-5

### Visual Fault Locator



The VFL-5 is a compact but powerful Visible Light Source with an output power up to 1mw. An essential for every testing kit, the VFL-5 can be used to locate sharp bends and breaks in jacketed or bare fiber. It can also be used to identify connectors in patch panels or identify fibers during splicing operations.

## PRO® VFL-10

### Pocket VFL



The VFL-10 is a compact but powerful Visible Light Source with an output power up to 8dBm. The VFL-10 can be used to locate sharp bends and breaks in jacketed or bare fiber within 10km. It can also be used to identify connectors in Patch Panels or identify fibers during splicing operations.



## PRO® VIP-35 Video Inspection Probe

### VIP-35 / VIP-35-K2 / VIP-35 w/ Data Storage



The VIP-35 Inspection Probe is designed to provide customers the ability to troubleshoot network performance issues (most commonly caused by dirty connectors) by inspecting the end face of a connector for debris. The VIP-35 kit includes a 400x power probe and a 3.5 inch display for detection of even the smallest contaminants. With the included probe tips, the user has the ability to check the quality of both the cable and bulkhead connectors.

#### VIP-35 Kit Includes

Hard carrying case, 400X probe and monitor, AC charger, FC/SC/ST bulkhead adapter, 2.5mm universal adapter

#### VIP-35 Kit 2 Includes

Hard carrying case, 400X probe and monitor, AC charger, FC/SC/ST bulkhead adapter, LC bulkhead adapter, 2.5mm universal adapter, 1.2mm universal adapter

#### VIP-35 w/Data Storage Kit Includes

Hard carrying case, 400X probe and monitor, AC charger, FC/SC/ST bulkhead adapter, LC bulkhead adapter, 2.5mm universal adapter, 1.2mm universal adapter

### SPECIFICATIONS

Item / Model No.	VIP-35	VIP-35 Kit 2	VIP-35 w/Data
Magnification		400X	
Screen Size		3.5 in	
Dimensions		5.51 x 3.03 x 1.53 in	
Weight		15.7 oz	
Screen Type		TFT Active Matrix	
Video Output		PAL / NTSC	
Power	12V DC Built-in Li-ion Rechargeable Battery		
Input Power	110-240V AC Adapter		
Power Supply	AC or DC Operation		
Battery	3 Hours		
Charging	3 Hours		
Operating Temperature	+ 4 °F to 122 °F (-10 °C to +50 °C)		
Connectors Included	Universal Patch Cord Tip		
Adapters Included	2.5mm / 1.25mm / 2.5mm (bulkhead) / LC (bulkhead)		
Data Storage	No	Yes	
Data Download	No		Yes



# PRO® Optical Fiber Identifiers

The PRO Optical Fiber Identifier is a rugged, easy-to-use installation and maintenance instrument which identifies optical fibers by detecting the optical signals being transmitted through a fiber. By utilizing local detection technology (non-destructive macro-bend detection which does not damage or overstress the fiber), the unit eliminates the need to open the fiber at the splice point for identification; eliminating the probability of interrupting service. The Optical Fiber Identifier detects low frequency tones at 270 Hz, 1000 Hz and 2000 Hz. When traffic is present on the fiber under test, an audible tone can be heard as well as the traffic direction indicated by LEDs illuminating on the probe.

## PRO® OFI-11 Optical Fiber Identifier



### Standard Accessories

- Optical fiber identifier
- Adapter heads (3pcs)
- Rechargeable battery
- User manual
- Soft carrying case

### Features

- Detect a variety of optical tones, 270Hz, 1kHz and 2kHz
- Powered by 2 AA alkaline batteries
- RB0.25mm, RB0.9mm, RB3 .0mm plungers available

### SPECIFICATIONS

Item / Model No.	OFI-11	OFI-30
Identified Wavelength Range	900 to 1650nm	800 to 1700nm
Identified Signal Type	CW, 270Hz±5%, 1kHz±5%, 2kHz±5%	CW, 270Hz±5%, 1kHz±5%, 2kHz±5%
Detector Type	InGaAs 2pcs	InGaAs
Adapter Type	0.25 (Applicable for "Bare" 250 micron fiber) 0.9 (Applicable for 900 micron fiber) 2.0 (Applicable for 2.0mm Cable) 3.0 (Applicable for 3.0mm Cable)	0.25 (Applicable for "Bare" 250 micron fiber) 0.9 (Applicable for 900 micron fiber) 2.0 (Applicable for 2.0mm Cable) 3.0 (Applicable for 3.0mm Cable)
Signal Direction	Left & Right LED indicator	Left & Right LED indicator
Optical Power Reading		-50~+0dBm
Signal Frequency	270Hz, 1kHz, 2kHz	270Hz, 1kHz, 2kHz
Power Supply	1.5V AA Batteries 2pcs	One 9V Alkaline Battery
Operating Temperature	-10 to +50 °C	-10~+50 °C
Storage Temperature	-20 to +70 °C	-25~+70 °C
Dimension (inches)	202L x 62W x 36H	195 (L) x 30 (W) x 27 (H) mm

## PRO® OFI-30 Optical Fiber Identifier



### Standard Accessories

- Optical Fiber Identifier
- Adapter Heads (4pcs)
- Battery
- User Manual
- Portable Bag

### Features

- Effectively identifies traffic direction and frequency tones (270Hz, 1kHz, 2kHz) without any damage to the fibers.
- Core Power display of the fibers (-50~+0Bm) at 0.9mm fiber.
- Very low loss (fiber attenuation) when testing is in process.
- Easily replaceable adapters; 0.25mm (250 micron), 0.9mm (900 micron), 2.0mm, 3.0mm to satisfy various optical cables.
- Portable & compact.
- Easy-to-use one button operation.



# Application Table

## PRECISION RATED OPTICS

### Product Selection Tool

#### Fiber Test and Troubleshooting Instruments

	Optical Loss Test Set	Visual Fault Locator	Optical Fiber Identifier	OTDR	Video Inspection Probe	Optical Loss Multimeter	Optical Break/Fault Locator
Inspect end-face contamination and/or damage?				X	X		
Analyze connectivity?	X	X	X	X			
Analyze polarity?	X	X	X				
Bi-directional testing?	X				X		X
Identifying fiber/connectors?		X	X				
Measure Attenuation?	X				X		X
Locate breaks/faulst?		X		X			X
Verify continuity?							
Inspection of installed connectors?		X					
Pass/fail results?					X		
Routine Maintenance?						X	
Data Storage?					X		X
Fiber types supported?	SM/MM	SM/MM	MM	SM/MM	SM/MM	SM/MM	SM
Source type?	Laser & LED	Laser & LED	LED	Laser & LED	Laser & LED	Laser & LED	Laser

	Optical Power Meter 100 Series	Optical Power Meter 200 Series	Optical Laser Source 100 Series	Optical Laser Source 200 Series	Fusion Splicer	PON Meter
Inspect end-face contamination and/or damage?						
Analyze connectivity?						
Analyze polarity?						
Bi-directional testing?	X	X	X	X		
Identifying fiber/connectors?	X	X	X	X	X	
Measure Attenuation?	X	X			X	X
Locate breaks/faulst?						
Verify continuity?	X	X				
Inspection of installed connectors?						
Pass/fail results?						
Routine Maintenance?						X
Data Storage?						
Fiber types supported?	SM/MM	SM/MM	SM/MM	SM	SM	SM
Source type?	Laser & LED	Laser & LED	Laser & LED	Laser	Laser	Laser



# Splicer Comparison Sheet

Description	PRO-730	PRO-790	PRO-810	FITEL S177A	Sumitomo Type 39	FSM-60S
<b>Splicing Method</b>	Core Alignment	Core Alignment	Core Alignment	Core Alignment	Core Alignment	Core Alignment
<b>Applicable Fibers</b>	SM, MM, DS, NZ-DS, EDF	SM, MM, DS, NZ-DS, G655, G657 and others	SM, MM, DS, NZ-DS, EDF and others	SM, MM, DS, NZ-DS, EDF	SM, MM, DS, NZ-DS	SM, MM, DS, NZ-DS
<b>Cladding Diameter</b>	100 to 150um	80-150 um	100-150 um	80 to 220 um	80-150 um	80-150 um
<b>Average Splice Loss (dB)</b>	0.02 SM, 0.01 MM, 0.04 DS, 0.04 NZDS	0.03db(MM), 0.05db(SM), 0.08db (DS/NZDS/ G.655/G.657)	.02dB(SM), .01dB(MM), .04dB (NZ-DS)	0.02 SM, 0.01 MM, 0.04 DS	0.02 SM, 0.01 MM, 0.04 DS	0.02 SM, 0.01 MM, 0.04 DS, 0.04 NZDS
<b>Monitor</b>	5.1" Color LCD	3.5" Color LCD, 200x	Color 5.0" in diagonal HD LCD, 360x Magnification	N/A	5.6" Color LCD	4.1" Color LCD
<b>Splice Time</b>	8 Seconds	8 seconds	8 Seconds.	9 Seconds	9 Seconds	9 Seconds
<b>Heater Time</b>	40 Seconds	35 Sec.	30 Seconds	37-51 Seconds	25-30 Seconds (equipped with dual heaters)	35-55 Seconds
<b>Data Storage</b>	8000 Splices	10000 Splice Records	8000 Splices	2000 Splices	10,000 Splices	2,000 Splices
<b>Warranty</b>	1 Years	1 Years	1 Years	1 Year	1 Year	2 Years
<b>Annual Clean &amp; Calibrate During Warranty</b>	Yes	Yes	Yes	No	No	No



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